

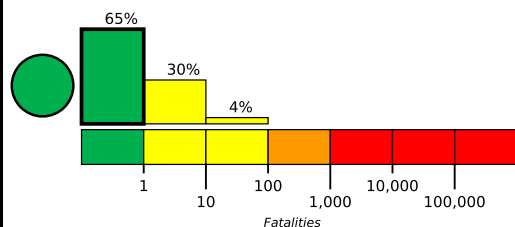
M 5.7, 86 km NNW of Phngsali, Laos

Origin Time: 2021-12-24 13:43:22 UTC (Fri 20:43:22 local)

Location: 22.3639° N 101.6878° E Depth: 10.0 km

Created: 2 hours, 4 minutes after earthquake

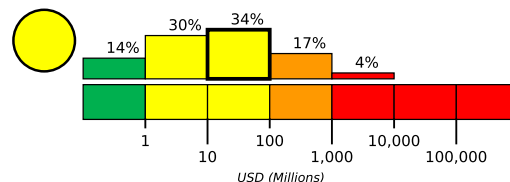
Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of China. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

Estimated Economic Losses

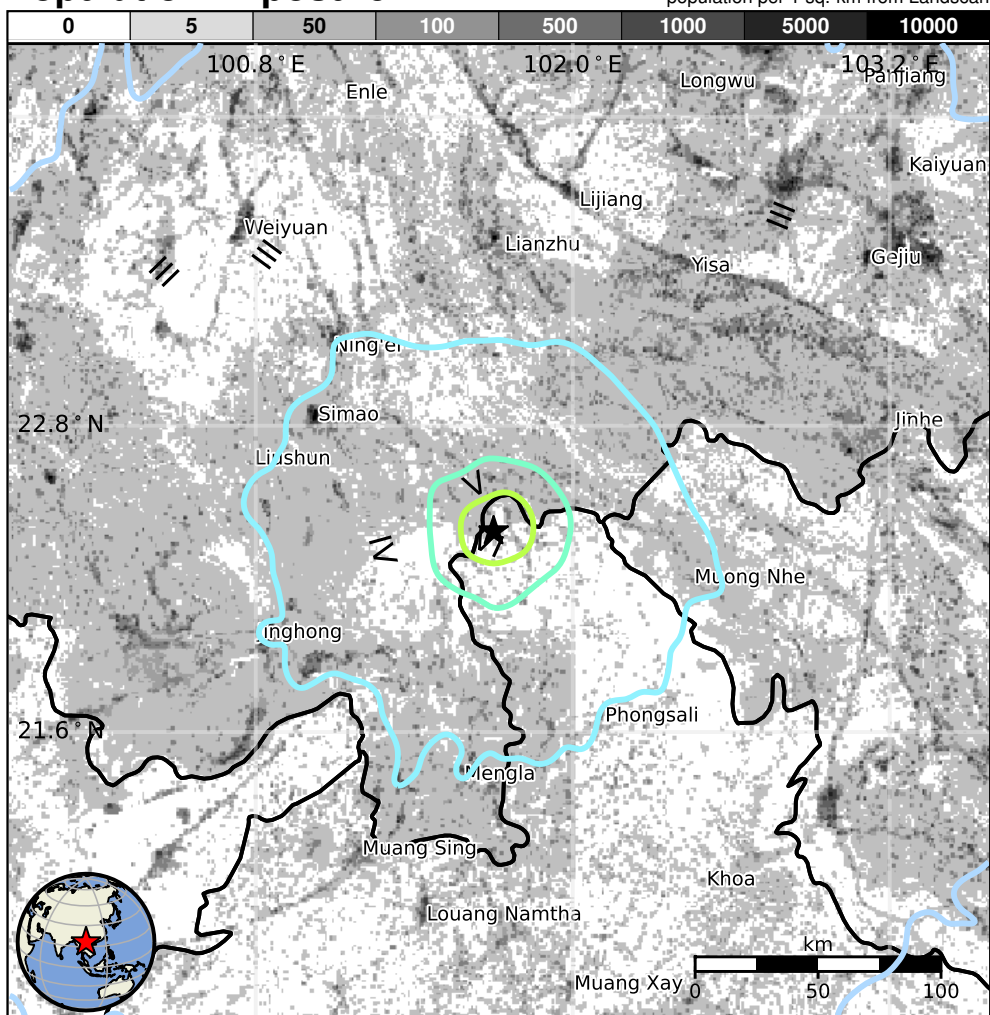


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	8,909k*	1,296k	58k	18k	1k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are unreinforced brick with concrete floor and precast concrete frame with wall construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1999-11-24	273	5.0	VI(90k)	1
2000-08-21	378	4.9	VI(60k)	1
1970-01-04	213	7.2	IX(316k)	16k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Menglie	<1k
IV	Simao	<1k
IV	Muong Nhe	<1k
IV	Mengla	<1k
IV	Jinghong	62k
IV	Muang Sing	<1k
IV	Louang Namtha	3k
III	Phongsali	14k
III	Dien Bien Phu	40k
III	Muang Xay	25k
III	Lai Chau	<1k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000gf1y#pager>

Event ID: us6000gf1y